

PTO/SB/08A (04-03)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/710,639
Filing Date	7/27/2004
First Named Inventor	Hall, et al.
Art Unit	3872
Examiner Name	
Attorney Docket Number	88.0088

Sheet 1 of 6

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
REF		US- 6,392,317 B1	6/21/2002	Hall, David R., et al	
		US- 6,670,880 B1	12/30/2003	Hall, David R., et al	
		US- 6,717,501 B2	4/5/2004	Hall, David R., et al	
		US- 6,688,473 B1	8/3/2005	Hall, David R., et al	
		US- 6,789,632 B2	10/5/2004	Hall, David R., et al	
		US- 6,844,498 B2	1/18/2005	Hall, David R., et al	
		US- 6,830,487 B2	12/14/2004	Hall, David R., et al	
		US- 6,913,093 B2	7/5/2005	Hall, David R., et al	
		US- 6,821,147 B1	11/23/2004	Hall, David R., et al	
		US- 6,929,493 B2	8/16/2005	Hall, David R., et al	
		US- 6,945,802 B2	9/20/2005	Hall, David R., et al	
		US- 20050238160 A1	10/27/2005	Hall, David R., et al	
		US- 20050212530 A1	9/28/2005	Hall, David R., et al	
		US- 20050173128 A1	8/11/2005	Hall, David R., et al	
		US- 20050161215 A1	7/28/2005	Hall, David R., et al	
		US- 20050150883 A1	7/14/2005	Hall, David R., et al	
		US- 20050145408 A1	7/7/2005	Hall, David R., et al	
		US- 20050115717 A1	7/2/2005	Hall, David R., et al	
REF		US- 20050001735 A1	1/6/2005	Hall, David R., et al	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear

Examiner Signature	/Robert Fuller/	Date Considered	05/04/2006
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
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Sheet 2

of 8

Complete if Known

Application Number	10/710,839
Filing Date	7/27/2004
First Named Inventor	Hall, et al.
Art Unit	3872
Examiner Name	
Attorney Docket Number	68.0068

Examiner Initials*	Cite No. ¹	U. S. PATENT DOCUMENTS			
		Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
REF		US- 20050085827 A1	5/5/2005	Hall, David R., et al	
		US- 20050093296 A1	5/5/2005	Hall, David R., et al	
		US- 20050092499 A1	5/5/2005	Hall, David R., et al	
		US- 20050082082 A1	4/21/2005	Hall, David R., et al	
		US- 20050001738A1	1/8/2005	Hall, David R., et al	
		US- 20050070144 A1	3/31/2005	Hall, David R., et al	
		US- 20050087159 A1	3/31/2005	Hall, David R., et al	
		US- 20050046590 A1	3/3/2005	Hall, David R., et al	
		US- 20050046886 A1	3/3/2005	Hall, David R., et al	
		US- 20050045839 A1	3/3/2005	Hall, David R., et al	
		US- 20050039912 A1	2/24/2005	Hall, David R., et al	
		US- 20050036507 A1	2/17/2005	Hall, David R., et al	
		US- 20050035876 A1	2/17/2005	Hall, David R., et al	
		US- 20050035875 A1	2/17/2005	Hall, David R., et al	
		US- 20050035874 A1	2/17/2005	Hall, David R., et al	
		US- 20050001738 A1	1/8/2005	Hall, David R., et al	
		US- 20040246142 A1	12/9/2004	Hall, David R., et al	
		US- 20040244984A1	12/8/2004	Hall, David R., et al	
REF		US- 20040244918A1	12/8/2004	Hall, David R., et al	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known

Application Number	10/710,639
Filing Date	7/27/2004
First Named Inventor	Hall, et al.
Art Unit	3572
Examiner Name	
Attorney Docket Number	68.0088

Examiner Initials*	Cite No. ¹	U. S. PATENT DOCUMENTS		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Document Number	Number-Kind Code ² (if known)			
REF		US- 20040216847 A1		11/4/2004	Hall, David R., et al	
		US- 20040164838 A1		8/26/2004	Hall, David R., et al	
		US- 20040164833 A1		8/26/2004	Hall, David R., et al	
		US- 20040150532 A1		8/5/2004	Hall, David R., et al	
		US- 20040146482 A1		7/29/2004	Hall, David R., et al	
		US- 20040113808 A1		6/17/2004	Hall, David R., et al	
		US- 20040104797 A1		8/3/2004	Hall, David R., et al	
		US- 4,738,326		4/18/1988	MacLeod	
		US- 6,012,016		1/4/2000	Tubel	
		US- 6,252,518 B1		6/26/2001	Laborde	
		US- 2,414,719		1/21/1947	Cloud	
		US- 3,518,808		6/30/1970	Papadopoulos	
		US- 4,788,544		11/29/1988	Howard	
		US- 6,886,308 B2		3/15/2005	Boyle, et al	
		US- 6,888,398 B2		2/10/2004	Floerke et al	
		US- 4,411,436		10/28/1983	McStravick	
		US- 5,276,248		1/4/1994	Krasnov	
		US- 5,855,399		1/3/1999	Profunser	
REF		US- 6,905,144 B2		6/14/2005	Vila	

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Signature

/Robert Fuller/

Date
Considered

05/04/2006

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	10/710,639
Filing Date	7/27/2004
First Named Inventor	Hall, et al.
Art Unit	3672
Examiner Name	
Attorney Docket Number	88.0086

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U. S. PATENT DOCUMENTS

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known

Application Number 10/710,639

Filing Date 7/27/2004

First Named Inventor Hall, et al.

Art Unit 3672

Examiner Name

Sheet

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of

5

Attorney Docket Number

66.0066

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
REF		PCT/US 03/16475, Published 12/04/2003, Applicant Baker Hughes; International Search Report "Documents Considered to Be Relevant"	

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